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1941

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The radio communiqués of the International Institute of Agriculture are transmitted between 3.15 and 3.25 p. m. on the following days: Monday, Italian; ***Tuesday,*** French; ***Wednesday,*** English; ***Thursday,*** German; ***Friday,*** Spanish; ***Saturday,*** Russian.

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ACTIVITY OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

Permanent Committee of the Institute (March, 1941). — The first session of the year 1941 was inaugurated on March 14 at 10 a.m. Mr. J. Clyde Marquis, Delegate of the United States of America and Vice-President of the Permanent Committee of the International Institute of Agriculture presided. The meeting was attended by numerous Delegates representing about thirty Member-States.

The Permanent Committee, before taking up the discussion of the matters contained in the Agenda, proceeded to the election of the President of the Permanent Committee according to Article 8 of the International Convention of June 7, 1905.

Baron Giacomo Acerbo, Delegate for Italy, was unanimoulsly re-elected as President of the Permanent Committee of the Institute for another period of three years.

The Vice-President of the Institute and the Delegate for Switzerland expressed to M. Acerbo their warmest congratulations declaring that his re-election is an evidence of appreciation and gratitude for the truly remarkable and zealous work contantly consecrated by him to the Institute, a work which has been rewarded by happy results, in spite of the difficulties of the present time.

Baron Acerbo, thanking his eminent colleagues of the Permanent Committee, pointed to the perfect cooperation existing among all the organs of the Institute which is called to play a pre-eminent part in the work of reconstruction of world economy.

The Permanent Committee undertook the discussion of the Agenda dealing with different administrative and technical questions of particular interest for the Institute.

The Report of the Secretary General devoted to all the Institute activities, gave the Delegates an opportunity to espress their satisfaction over the fact that the Institute is carryng on its work as in normal times and gets good results.

The next Session of the Permanent Committee will open on June 6, 1941.

New Delegates in the Permanent Committee of the Institute — His Excellency Dr. Detchko Karadjoff, Minister Extraordinary and Plenipotentiary at the Court of H. M the King of Italy and Albania, Emperor of Ethiopia, has been appointed as Delegate for Bulgaria in the Permanent Committee. Mr. Edgar Rangel do Monte, First Secretary of the Brazilian Embassy in Rome, has been appointed as Deputy-Delegate for Brazil in the Permanent Committee.

The Death of the Delegate for Hungary. — The Permanent Committee, at its last Session, expressed its sorrow for the death of one of its most esteemed members, Mr. Tibor de Péchy, Delegate for Hungry, who died at Budapest on January 8, 1941.

International Forestry Center. — The Permanent Committee of the I. I. A., at its March 1941 session, listened to a Report presented by the Director of the C. I. S. dealing with the activity of the Center during the year 1940, and went over the financial annexes enclosed in the Report controlled by the Société Anonyme fiduciaire Suisse. During the year 1940, the 7 Center besides carrying on its regular auxiliary service, gave much impulse to its scientific work, particularly to its Review " Intersylva " its surveys and its library.

Sweden, Spain, Turkey and Norway have adhered to the Center. It was also during this period (May 1940) that the General Assembly of the International Institute of Agriculture took place. The Center was represented at the Assembly by its President, Baron Waldbott.

This year two meetings of the Center took place at Berne in March and at Budapest in October.

A brief mention is herein made of the work of the different services:

(a) *Secretariat Division.*

The work of this division continued regularly and was further improved. In order to insure a regular development of its work, this division has been subdivided into the following branches: (1) General business and chancery; (2) Publications; (3) Administration and Staff; (4) Auxiliary services (registration and despatch of correspondence, archives, copy, etc.).

(b) *Scientific Divisions.*

The activity of the scientific divisions during the year 1940 may be classified as follows: (1) pubblication of " Intersylva »; pubblication of monographs; (3) other works.

Of the Review ' Intersylva " has already been published the first number. Of the series of monographs ' Silvae Orbis " have appeared N° 1 ; International Survey of forestry periodicals ; and N° 2 : Legislation of reforestation of uncultivated lands.

(c) *Library.*

During this year efforts have been made to increase the fundamental library material. Complete collections of periodicals were bought on suitable terms. At December 31, 1940, the book collection amounted to 1966 volumes. Special attention was devoted to the acquisition of periodicals. All the organisitions to which an appeal had been made, agreed to exchange their publications with " Intersylva "; for which courtesy the Center expresses its thanks. At present (December 31, 1940), the Library has at its disposal the following periodicals: Total of periodicals received regularly 248, of which 165 as exchanges, 34 as gifts and 49 bought.

Program of work. — The bureaus of the Center had begun the preparation for the work during the year 1941 since the latest months of 1940. This program (besides the publication of "Intersylva") deals with the following matters:

(*a*) Preparation of the yearly bibliographic publication, according to the Berne resolution (1940). Collection of publications to be issued in 1941. These works will have to be completed by March 1942. On this matter, following the Berne decision, provisional agreements have been made with the Union Internationale des Instituts de Recherches forestières.

(*b*) Monographs, especially on the following subjects: Routier Plantation Management plans of small forests; Forestry credit; Researches on the yield capacity of saws employed in forestry holdings; Chemical fertilizers; Vergin forests in the temperate zone of the northern hemisphere; World trade in lumber from 1925 to 1938; Forestry legislation from 1900 to 1940.

A Message from the United States Committee for the International Institute of Agriculture. — Mr. Charles J. Brand, President of the American Committee for the International Institute of Agriculture has addressed to the President of the Institute a message that is a clear evidence of the estimation in which the Institute is held. The text of the message and the reply of the President of the International Institute of Agriculture are given below.

"Washington, January 21, 1941.

Prof. Baron Giacomo Acerbo, President International Institute of Agriculture Villa Umberto I, Rome, Italy.

My dear Mr. President,

I share with many the view that in the economic reconstruction that must inevitably follow the present struggle, the International Institute of Agriculture, over which you have presided with such signal success for a period of years, must play an important part.

It should be a matter of general gratification that there exists a disinterested international agency, competent, when the channels of commercial communication are again opened to more normal processes, to furnish authoritative data for a just distribution of the world's supply of food, fibre, and other essential raw materials obtainable from the animal and plant industries.

So I should like to extend my best wishes to you and your colleagues in the work you are doing and to express the hope that during this and future years, the Institute may increase its influence as a center of international cooperation, especially since the unfortunate world conditions have interrupted such cooperation in so many vital ways.

With cordial regards, I am,

Faithfully yours,

CHARLES J. BRAND
Chairman, American Committee".

Reply of the President of the International Institute of Agriculture to above Message.

" Rome, 25 February 1941.

My dear Mr. Brand,

The International Institute of Agriculture is most grateful to you for your message which reached us at a time when its work, carried on amidst the difficulties due to present world conditions, has such need of being sustained by the confidence and practical support of all its old and trusted friends and co-workers.

Your words of encouragement are all the more appreciated because they come from a man of your standing and interpret the feelings of the agricultural circles of a great country which has always been devoted to the purposes of the I. I. A., and to which the Institute is attached by the strong ties of an old and grateful friendship.

I wish to assure you that the Institute is making every effort to continue and improve its work, directing it towards the needs of a period of reconstruction which should secure for all that equitable distribution of the world's supplies of agricultural staples to which you make eloquent reference in your message. Let me add that this work finds in me and in my able colleague and friend, Mr. Clyde Marquis, American delegate and Vice-President of the Institute, two convinced and tenacious assertors of the need of going forward steadily with our program for the improvement of agriculture and of world economic conditions.

I feel sure that I interpret the feelings of the Permanent Committee, to which I shall communicate your greatings and your recommendations, in sending you and the Committee of which you are Chairman, the expression of our deep appreciation and cordial solidarity.

Sincerely yours,

G. ACERBO,
President ".

The 45th Assembly of the American Academy of Political and Social Sciences. — The American Academy of Political and Social Sciences invited the International Institute of Agriculture to appoint its delegates to the 45th yearly Assembly held at Philadelphia on April 4 and 5. 1941. The delegates appointed by the Institute to attend this meeting were : Professor Henry Taylor, former Delegate of the United States of America in the Permanent Committee, and Mr. Charles J. Brand, President of the American Committee for the International Institute of Agriculture.

The Gift of a Collection of Pamphlets to the Institute Library. — H. E. Senator Arturo Marescalchi, former Italian Undersecretary for Agriculture and Forestry, has presented as a gift to the Library of the International Institute of Agriculture a rich collection of about 3600 pamphlets. This collection donated by the most illustrious Italian student of problems relating to vines and wine, consists mostly of writings on wine-making, the cultivation of the vine, vine and wine economy, but also of writings on general or specialized agricultural economy and on other matters connected with it. By this gift, the Institute has come in possession of a very valuable collection of studies and documents on Italian and world agriculture of the last fifty years.

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DISCOVERIES AND CURRENT EVENTS *

SPAIN.

Prodenia litura and *Euprepocnemis plorans* in the South †

Prodenia litura Boisd. (*Lep. Noct.*). Since the summer of 1937, this species has become a serious pest in the market-gardens near Almería. According to the observations of Sr. Mendizábal, there are three generations a year and the plants attacked are chiefly peppers, tomatoes, potatoes, alfalfa, maize, cabbage, squash, melons and egg-plants. Dusting with lead arsenate was found to be very effective in checking the spread of this insect, while powdered calcium arsenate only gave poor results.

Eupropocnemis plorans Charp. (*Orthopt. Acrid.*). Some damage has been caused by this insect to horticultural crops in Adra and the Almería plain, though up to the present it has not been reported as a serious pest.

FINLAND.

Spread of *Eriophyes tenuis* in the Country §

The available knowledge on the biology of *Eriophyes tenuis* Nalepa, which attacks some of the chief forage grasses is, in general, inadequate and partially erroneous.

This mite was described by Nalepa (Denkschrift Akad., Vienna, 1891, Vol. 58, p. 871) who based his observations on specimens found on the virescent flowers of *Bromus mollis* L., *B. sterilis* L. and *Avena pratensis* L.

Nalepa (Marcellia, Avellino, 1929, Vol. 25) also attributes to *E. tenuis* besides the above-mentioned, the following host plants: *Aira flexuosa* L., *Bromus arvensis* L., *B. erectus* Huds., *B. racemosus* L., *B. secalinus* L., *B. tectorum* L. and *Dactylis glomerata* L.

* Under this and the next heading the countries are arranged in French alphabetical order.

† Communication from the official correspondent of the Institute, Sr. José del Cañizo, Agricultural Engineer, Central Phytopathological Station, Madrid, Spain.

§ Communication from the official correspondent of the Institute, Prof. Dr J. I. Liro, University Phytopathological Institute, Helsinki, Finland.

To this list should be added *Anthoxanthum odoratum* L. In fact, Lindroth (Acta Soc. Flora Fauna Fennica, Vol. 26, No. 4, p. 8) observed in three different localities of Finland, the mite in question on the abnormal spikelets of this grass. *Poa pratensis* L. must also be added as *E. cornutus*, described in 1900 by Enzio Reuter (Acta Soc. Fl. Fauna Fennica, Vol. 19, p. 83) was later identified as *E. tenuis* (Liro, Ann. Zool. Soc. Vanamo, Helsinki, 1940, Vol. 8, No. 1, p. 1).

The fact that *E. tenuis* has been observed on twelve different species of host plants and always on more or less deformed spikelets has caused this mite to be considered as typically cecidogenous without taking into account that it must of necessity subsist somewhere during the periods when the host plants have not yet developed their inflorescences or when flowering is terminated.

Attention was again called to *E. tenuis* when Reuter (l. c., p. 81) reported that this mite may cause the blanching of inflorescences of *Agropyron repens* Beauv., *Avena pubescens* Huds. and *Phleum pratense* L. and which he had also found (Zeitschr. für Pflanzenkrankh., 1902, p. 331) attacking wheat in south-western Finland (Lofsdal, Pargas). According to Reuter, this mite would cause the complete and characteristic blanching of the inflorescence owing to the continual suction exercised on the soft tissue of the stalk above the upper internode.

Undoubtedly, *E. tenuis* may be found on deformed spikelets, however, it is difficult to prove that it is responsible for the discoloration of the inflorescence, being a species living in the free state.

This mite is, at least in Finland, very widespread and, if searched for, will be found throughout the country. I myself have found it in the Alpine region (altitude 800 m.) in north-west Lapland, on the coast of southern Finland and on the borders of Lake Ladoga. I only found it thrice on deformed spikelets (of *Anthoxanthum odoratum*), which fact proves that the action of this mite in causing malformation in growth may be taken as being very limited.

A characteristic of Finnish grasses attacked by *E. tenuis* is that they practically always remain sterile. *Elymus arenarius* L., however, appears to be a remarkable exception to this rule. In fact, this hardy plant is able to develop normal inflorescences despite heavy infestation. On the other hand, *Calamagrostis epigejos* Roth, *C. arundinacea* Roth and *Agropyron repens* having exceptionally well developed stalks are usually sterile if they have suffered infestation. No blanching was ever found on any of the grasses studied.

The following species have now been found to be host plants of *E. tenuis* in Finland: *Agropyron caninum* Beauv., *A. mutabile* Drobov, *Agrostis canina* L., *A. stolonifera* L., *A. tenuis* Sibth., *Alopecurus aequalis* Sobol., *A. geniculatus* L., *A. pratensis* L., *A. ventricosus* Pers., *Calamagrostis arundinacea* Roth, *C. borealis* Laest., *C. epigejos* Roth, *C. lanceolata* Roth, *C. lapponica* Hartm., *C. neglecta* Gaertn., *C. purpurea* Trin., *Deschampsia caespitosa* Beauv., *Elymus arenarius* L., *Festuca arundinacea* Schreb., *F. ovina* L., *F. pratensis* Huds., *F. rubra* L., *Melica nutans* L., *Milium effusum* L., *Molinia caerulea* Moench, *Phalaris arundinacea* L., *Poa angustifolia* L., and *P. nemoralis* L.

ITALY.

Phytopathological Observations *

The Royal Station of Plant Pathology, Rome has observed, for the first time in Italy, *Oidium hortensiae* Jørst. on the inflorescences of hydrangea plants (*Hydrangea hortensia*) grown in greenhouses. It is interesting to note that only the inflorescences were attacked.

A mosaic disease has been found for the first time in Italy on the peach. Infection was observed on three trees of the 'Précoce argenté' variety imported from France and cultivated near Ravenna.

In Friuli, for the first time in Italy, peach trees were found to be suffering from serious and extensive decay, sometimes causing the dying-off of the trees, due to leptonecrosis, up to the present found on plum, cherry and apricot trees.

The 'Bouquetière' sour orange variety (*Citrus vulgaris* Risso) has proved very resistant to 'mal secco' (*Deuterophoma tracheiphila* Petri). Experiments are now being carried out on its resistance to *Phytophthora* collar and root rot and its suitability for grafting with Sicilian citrus varieties resistant to 'mal secco'.

Further experiments have confirmed the hereditary transmission of the brown spot disease ('Eisenfleckigkeit') of potato tubers, but have also proved the considerable influence of seasonal conditions on the manifestation of this disease.

RUMANIA.

Agricultural Parasiticides Authorized for Use in the Country (*concluded*) †

The previous number (pp. 41-49) contains the first part of the list of agricultural parasiticides authorized by the Ministry of Agriculture and Domains of Rumania.

The following pages conclude this list.

* Communication from the Royal Station of Plant Pathology, Rome, Italy, official correspondent of the Institute.

† Communication from the official correspondent of the Institute, Prof. Dr TRAIAN SĂVULESCU, Chief of the Phytopathogical Section, Agricultural Research Institute of Rumania, Bucharest, Rumania.

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
Contact insecticides				
Carbolineum pentru pomi	Chemische Fabrik F. Schacht, Brunswick, Germany	Different insects	3-7 per cent. according to extent of infection and species of fruit tree attacked	27
Carbolineum 'Synaf'	Dr. G. L. Synaf, Bucharest	Winter treatment of fruit trees	6-8 kg per 100 l. water	94
Dendrin	Uzinele Chimice și Alimentare S. A., Oradea Mare	Scale insects (*Coccidae*) for winter treatment	10-15 per cent.	18
Enda	Frederich Spodheim 'Sanachimica', Bucharest	Insects and eggs hibernating on fruit trees	3-7 per cent.	30
Neodendrin	Uzinele Chimice și Alimentare S. A., Oradea Mare	Animal parasites chiefly scale insects (winter treatment)	5 per cent.	19
Novenda	Frederich Spodheim 'Sanachimica', Bucharest	Insects and fungi hibernating on fruit trees	5 per cent. in water or Bordeaux mixture	43
Ovicide	Cooper, McDougall & Robertson, Ltd., Berkhampstead	Insects, eggs, nests of caterpillars, other plant or animal pests (winter treatment)	3, 5-7 per cent. according to extent of infection and species of fruit tree attacked	21
Oil emulsions				
Albolineum (white oils emulsion)	Cooper, McDougall, Robertson, Ltd., Berkhampstead	Downy mildew (*Peronospora sparsa*) and powdery mildew (*Sphaerotheca pannosa*) of the rose; scale insects and plant-lice (*Aphididae*) chiefly on greenhouse plants	1-2 per cent. according to the type of infection (abundant spraying under heavy pressure)	20
Kermocid	S. P. I. C. – S. A. R., Bucharest	Eggs of plant-lice and suckers (*Psyllidae*), scale insects	7 per cent. for winter spraying	31

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Continued: Oil emulsions		
Libex Universal (mineral oil emulsion)	Frederich Spodheim 'Sanachimica', Bucharest	Fungi spores, insects and their eggs hibernating on fruit trees; insects with soft tegument (during growth)	3-5 per cent. for winter treatment; 1-2 per cent. for summer treatment	42
Minodrin (mineral oil emulsion)	Uzinele Chimice şi Alimentare S. A., Oradea Mare	Scale insects	6 per cent. for winter spraying	97
Neo-Petrosol	S. P. I. C. – S. A. R., Bucharest	Plant-lice and scale insects	7 per cent. for winter spraying; 1-2 per cent. for summer treatment	29
Petrosol	*Id.*	*Id.*	*Id.*	28
Pomex (Shell Winter Spray) [mineral oil emulsion]	Shell Company of Rumania S. A.	Larvae and eggs of different insects, scale insects, plant-lice, thrips, etc.	4-6 per cent.	49
		Nicotine preparations		
Exodin	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	Aphids, thrips	1 per cent. solution for plant-lice; 2 per cent. for thrips; 0.5 per cent. for flowers	
Exodin-Docht	*Id.*	Aphids and larvae of other insects	By flameless combustion of 1 cm. of wick per square metre	110
Pflanzenwohl	Chemische Fabrik Marienfelde, Berlin-Marienfelde	Plant-lice and other insects	1 l. of the product diluted with 75-100 l. water	76
Plantin	S. P. I. C. – S. A. R., Bucharest	Aphids and larvae of other insects	1 per cent. in water	58

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Continued: Nicotine preparations		
Thanol	Chinoin, Budapest	Plant-lice	250-500 g. in 100 l. water; 500 g. green soap may be added	62
Toxilin	Uzinele Chimice şi Alimentare S. A., Oradea Mare	Scale insects, aphids, different caterpillars, larvae attacking lucerne and clover; vine moths	¼-1 per cent.	63
		Rotenone preparations		
Katakilla	Cooper, McDougall & Robertson, Ltd., Berkhampstead	Different insects	1 kg. of product per 250 l. water; in certain cases, 1 kg. per 160 l. water	89
		Pyrethrum preparations		
Agri-Tox	Maison Fly-Tox, Paris	Aphids of fruit trees and other cultivated plants	1 l. in 200 l. water	98
		Fumigants		
		Generating hydrocyanic acid gas		
Calcid	Deutsche Gesellschaft für Schädlingsbekämpfung (Degesch), Frankfort-on-Main, Germany	Diseases and pests of agricultural products	Variable according to the concentration to be made, taking into account the parasite, plant and the area to be treated	47
Cyanogas	*Id.*	Parasites of greenhouse plants	*Id.*	48
Zyklon	*Id.*	Parasites of agricultural products	*Id.*	46

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Carbon bisulphide		
Carbon sulphide	Regia autonomă a Intreprinderilor miniere şi metalurgice ale Statului din Ardeal, Bucharest	Different insects living in the soil; weevils (*Curculionidae*) attacking seeds	According to the purpose required	102
Extermin	S. P. I. C. – S. A. R., Bucharest	Different insects living in the soil	150 g. of the product in 4.85 l. of water per sq. metre to disinfect the ground around fruit trees, glass-frames; 100 g. in 1.9 l. water per sq. m. for ground planted to flowers and vegetables; 400 g. in 9.6 l. water per sq. m. of manure or compost heaps	83
		Special preparations		
Uspulun	'Bayer' I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Parasites living in the soil or attacking seedlings, seed, etc.	Glass-frames: 10 g. of product in 3-10 l. of water to each sq. m. Cabbage seed: 0.25 per cent. solution for controlling club root (*Piasmodiophora brassicae*) Vegetable seed: 0.125 per cent. solution Roots of young trees: 1 per cent. solution for treating crown gall (*Pseudomonas tumefaciens*)	93
		Products for the control of storehouse pests		
Anox	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	Weevils	10 l. of product in 90 l. water	112
Grodyl-Neu	'Bayer' I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	*Id.*	*Id.*	

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
Products for tree-banding				
Arbocol	'Bayer' I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Different insects (caterpillars, geometers, ants, etc.) infesting fruit trees	According to the instructions given on package	92
Cleiul 'Spic' (clei de pomi)	S. P. I. C. – S. A. R., Bucharest	*Id.*	*Id.*	23
Hiberna	Frederich Spodheim 'Sanachimica', Bucharest	*Id.*	*Id.*	
Ostico	Cooper, McDougall & Robertson, Ltd., Berkhampstead	*Id.*	*Id.*	16
Sotor	Uzinele Chimice şi Alimentare S. A., Oradea Mare	*Id.*	*Id.*	13
Raupenleim Schering	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	*Id.*	*Id.*	
Waxes for coating wound tissue on fruit trees				
Almola	Frederich Spodheim 'Sanachimica', Bucharest		According to the instructions given with product	40
Ceară de altoit	S. P. I. C. – S. A. R., Bucharest		*Id.*	24
Ceară de altoit	Farmacia la 'Vultur' H. V. Ligner, Sighişoara, Rumania		*Id.*	105
Ceară de pomi 'Avenarius'	Uzinele Chimice şi Alimentare S. A., Oradea Mare		*Id.*	15
Ceară de răni	S. P. I. C. – S. A. R., Bucharest		*Id.*	32
Pomrin	Uzinele Chimice şi Alimentare S. A., Oradea Mare		*Id.*	39

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
Products for preserving wood				
Conservin	S. P. I. C. – S. A. R., Bucharest		According to the instructions given with the product	37
Pharolin	Cooper, McDougall & Robertson, Ltd., Berkhampstead		*Id.*	38
Different products				
Iron sulphate cryst.	Mărășești S. A. R., Bucharest		According to the purpose required	36
Iron sulphate cryst.	Regia autonomă a Intreprinderilor miniere și metalurgice ale Statului din Ardeal, Bucharest		*Id.*	99
Potassium metabisulphite cryst.	Mărășești S. A. R., Bucharest		*Id.*	35
Products for rodent control				
Containing thallium				
Binicid boabe	Uzinele Chimice și Alimentare S. A., Oradea Mare	Mice	According to the instructions given	108
Binicid pastă	*Id.*	*Id.*	*Id.*	69
Zelio boabe	'Bayer' I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	*Id.*	*Id.*	72
Zelio-pastă	*Id.*	Mice and rats	*Id.*	73
Containing phosphorus				
Lepit-Pulbere	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	Mice	For sprinkling in the localities frequented by these rodents	
Lepit-Semințe	*Id.*	*Id.*	For sprinkling on the products consumed by the mice	

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Germany. — By derogation of the provisions in force [see this *Bulletin*, 1941, No. 3, p. 50], the attribution of cereals and grain by-products to chemical works and establishments engaged in the control of animal pests, will be made through the intermediary of the Central Grain and Fodder Guild. (*Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin, Anfang Februar 1941, 21. Jahrg., Nr. 2, S. 16).

Brazil. — By ' Portaria ' No. 420 of August 12, 1940, the territory of Acre and the States of Amazonas and Pará have been declared infested by *Marasmius perniciosus*, cause of the disease known as ' vassoura de bruxa ' (witch broom disease).

Under these circumstances, the export of fresh seed, fruits and plants of cacao and of many other sterculiaceous plants from any district whatsoever of the aforesaid region to other parts of the country or abroad is prohibited.

The export of soil or mould either with or without plants belonging to this or other plant species is also prohibited.

Only those plants from quarantine fields managed and supervised by technicians of the Plant Protection Division of the Ministry of Agriculture or by other duly authorized persons may be transported through other parts of the country or dispatched abroad, accompanied by a sanitary certificate.

The transit of soil and mould will only be allowed if the said material is accompanied by a certificate testifying to the absence of any medium which might carry the parasite and if the material in question has been sterilized by heat. (*O Biologico*, São Paulo, outubro de 1940, ano VI, nº 10, pag. [302]).

*** By ' Portaria ' No. 573, dated October 30, 1940, the States of Espirito Santo, Rio de Janeiro, São Paulo, Paraná, Santa Catarina, Rio Grande do Sul, Minas Geraes, Goyaz, and Matto Grosso have been declared infested by *Bacillus manihotus*, cause of the disease commonly known as ' bacteriose da mandioca '.

The export of cuttings of *Manihot* spp. from any district whatsoever of the above-mentioned States is prohibited.

For experimental purposes only, cuttings of cassava disease-resistant varieties, obtained from plants grown under the supervision of the ' Divisão de Defêsa Sanitária Vegetal ' in official establishments may be exported on a small scale, provided that consignments are labelled and furnished with a transit sanitary certificate. These cuttings will be quarantined on arrival at the establishment in question. (*Ibid.*, novembro de 1940, nº 11, pag. [332]).

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Italy. — Ministerial Decree of December 20, 1940 declares the control of fruit tree scale insects compulsory.

The district administrators at the request of the official Royal Observatory for plant diseases will delimit, by means of ordinances, the zones where control measures should be carried out and will indicate the insecticides to be employed.

The technical supervision of control operations is entrusted to the Royal Observatories for plant diseases regarding the different districts in question; assistance will be given by the provincial Inspectorates of Agriculture. These latter, in cooperation with the authorized Divisions of the provincial Farmers' Consortia, will take charge of control operations. In turn, the said Divisions are charged with the execution of control measures at the expense of persons neglecting or delaying carrying out the measures in question.

The Ministry of Agriculture and Forests will supply the farmers with the insecticides required to carry out the necessary control operations during the 1940-41 season. Insecticides will be furnished gratis if the amount used does not exceed in value the expenses (labour, transport, apparatus) borne by the proprietor or occupier of land grown to fruit trees in carrying out the said measures. In the contrary case, the excess will be covered to the benefit of the State. (*Gazzetta Ufficiale del Regno d'Italia*, Roma, 4 marzo 1941, anno 82°, n. 54, p. 1009).

*** By Ministerial Decree of February 18, 1941, the badger [*Meles m. meles*] is included among the animal pests in the shoots of the provinces of Imperia, Aosta, Vercelli, Novara, Como, Sondrio, Bergamo, Verona, Belluno, Treviso, Udine, Bolzano, Trento, Pola, Gorizia and Fiume. (*Ibid.*, 25 febbraio 1941, n. 48, pp. 931-932).

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